

NICHOLLS STATE UNIVERSITY
PURCHASING DEPARTMENT
PO BOX 2052 University Station
104 Elkins Hall
Thibodaux, La 70310
Phone No. (985) 448-4038
Fax No. (985) 448-4921
EO/AA Employer, M/F/H/V

BID NO. **SB01514**

Date: **November 20, 2009**

INVITATION, BID AND ACCEPTANCE

INVITATION: Sealed bids, subject to the conditions herein stated and attached hereto, will be received at this office until **3:00 P.M. on December 10, 2009** and then publicly opened for furnishing the items and/or services as described below for Nicholls State University.

Signed Terry G. Dupre
Terry G. Dupre
Director of Purchasing

The right is reserved to reject all or part of your offer as well as to cancel this entire solicitation

DESCRIPTION

"Procurement of Scientific and Research Equipment".....

INSTRUCTIONS: YOUR BID IS TO BE MADE ON THE ATTACHED FORM AND RETURNED WITH THIS "INVITATION" IN THE ENCLOSED ENVELOPE. 2. The University cannot accept bids or alterations by wire, phone or facsimile. 3. **ALL PRICES ARE TO BE QUOTED COMPLETE AND F.O.B. NICHOLLS STATE UNIVERSITY, THIBODAUX, LA.** 4. All prices assumed firm unless otherwise stated. 5. Any bid received after bid closing time will be returned unopened. 6. **As a state agency, the University is NOT liable for state sales tax inacted by the State Legislature and in effect at the time of issuance of the order.** 7. Do not include federal excise tax unless requested. 8. Unless otherwise specified all bids shall be binding for 30 calendar days from date of bid opening. 9. **FAILURE TO SIGN IN INK WILL BE CAUSE FOR BID NOT TO BE CONSIDERED.** 10. Additions for packing or other items not quoted will not be allowed.

BIDDER SHALL FILL IN ALL BLANK SPACES

Terms will be _____ and shipment will be made within _____ days of receipt of order.

BID

In compliance with the above invitation for bids and subject to the conditions thereof, the undersigned offers and agrees if this bid be accepted within _____ days from the date of opening to furnish any or all of the items (or sections) at the price set opposite each item (or section). (In case of a continuing contract this price shall remain in effect until _____.)

Bidder _____

Signed _____

Address _____

Title _____

Phone (____) _____

Email _____

Fax (____) _____

Date _____

Acceptance by NICHOLLS STATE UNIVERSITY, THIBODAUX, LOUISIANA

Accepted as to items numbered _____

Signed _____

Purchasing Office

P.O. Box 2052
Thibodaux, LA 70310
985.448.4038
Fax: 448.4921



November 20, 2009

PUBLIC NOTICE INVITATION TO BID

Sealed bids will be opened and publicly read on December 10, 2009, by Nicholls State University, Purchasing Department, 104 Elkins Hall / P. O. Box 2052, Thibodaux, LA 70301, at 3:00 p.m., Central Time, on the date specified below:

Bid Number SB01514, Procurement of Scientific and Research Equipment

Bid documents and forms may be obtained from: Nicholls State University Purchasing Department, 104 Elkins Hall, P. O. Box 2052, Thibodaux, LA 70310, or in electronic format by visiting the State of Louisiana, Office of State Purchasing, LaPAC Web Site, <http://wwwprd.doa.louisiana.gov/osp/lapac/pubmain.asp>

Phone: (985) 448-4038 Fax: (985) 448-4921 email: terry.dupre@nicholls.edu

Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212(A)(1)(c) and/or R.S. 39:1594(C)(2)(D).

No bids will be received after the date and hour specified. No bids may be withdrawn after the scheduled closing time for receipt of bids for at least thirty (30) days. The University reserves the right to reject any and all bids.

A handwritten signature in blue ink that reads "Terry G. Dupre".

Terry G. Dupre
Director of Purchasing

To appear on: November 30, 2009

**STATE OF LOUISIANA
NICHOLLS STATE UNIVERSITY
THIBODAUX, LOUISIANA**

The Nicholls State University (NSU) Purchasing Department will receive sealed bids until 3:00 P.M. on the bid opening date specified in the solicitation document. No bid responses will be considered by the NSU Purchasing Department received after 3:00 P.M. on the date specified. Beginning at that time, bids shall be publicly opened and read aloud to those present in the NSU Purchasing Department.

Mail address: Nicholls State University
Purchasing Department
P. O. Box 2052
Thibodaux, LA 70310

Delivery: Nicholls State University
Purchasing Department
906 East First Street
Room 104 Elkins Hall
Thibodaux, LA 70301

Bids submitted are subject to LA R.S. 39:1551-1736; Purchasing Rules and Regulations; Executive Orders; General Conditions; any Special Conditions; and Specifications listed in the solicitation document.

The purpose of this solicitation is to set forth the requirements and specifications of Nicholls State University. The contents of this solicitation and the Bidder/ Vendor/ Contractor's bid response shall become contractual obligations if a contract (purchase order) ensues.

INSTRUCTIONS TO BIDDERS

- 1) **Bid Forms:** All written bids, unless otherwise provided for, must be submitted on, and in accordance with, forms provided, properly signed in ink by an authorized representative of the bidding entity. Bid prices shall be typewritten or in ink. Bids submitted in the following manner will not be accepted: (1) bid contains no signature indicating intent to be bound; (2) bid filled out in pencil; (3) photocopy of bidder's signature; and (4) bid sent by facsimile equipment. Price alterations to bid responses received before bid opening time will be considered provided the written price alteration has been received and time-stamped before bid opening time. Any other alterations of the bid response form or foreign conditions attached thereto may cause rejection of the bid response without further consideration.
- 2) **Special Envelope:** To assure consideration, all bids should be submitted in the special bid envelope if furnished for that purpose. In the event bid contains bulky material, the special bid envelope should be firmly affixed to the mailing envelope.
- 3) **Standard of Quality:** Any product or service bid shall conform to all applicable Federal and State laws and regulations and specifications contained in the solicitation document. Unless otherwise specified in the solicitation document, any manufacturer's name, trade name, brand name, or catalog number used in the specifications is for the purpose of describing the quality level and characteristic required. Bidder should specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact products specified in the solicitation document.
- 4) **Descriptive Information:** Bidders proposing an equivalent brand or model should submit with the bid response information (such as illustrations, descriptive literature, technical data) sufficient for the University to evaluate quality, suitability, and compliance with the specifications of the solicitation document. Failure to submit descriptive information may cause bid to be rejected. Any change made to a manufacturer's published specification submitted for a product shall be verifiable by the manufacturer. If item(s) bid does not comply with specifications (including brand and/or product number), bidder should state in what respect the item(s) deviate. Failure to note exceptions on the response form will not relieve the successful bidder(s) from supplying the actual products requested.
- 5) **Bid Opening:** Bidders may attend the bid opening, but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bids may be examined 72 hours after request is made. Information pertaining to completed files may be secured by visiting the NSU Purchasing Department during normal working hours. Written bid tabulations will not be furnished.
- 6) **Louisiana Preference:** Preference is hereby given to products produced, manufactured, harvested, grown or assembled in Louisiana which are equal in quality to products produced, manufactured, harvested, grown or assembled outside of Louisiana. The bidder shall state his right to claim the ten percent (10%) preference in his bid response on the form provided and the bidder should state the respective Louisiana location where each qualifying item is produced, manufactured, harvested, grown or assembled.
- 7) **Signature Authority:** In accordance with LA Revised Statute 39:1594 (Act 121), the person signing the bid must be: (1) A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State; or (2) An individual authorized to bind the vendor as reflected by an accompanying corporate resolution or affidavit. By signing the bid, the bidder certifies compliance with the above.

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-Continued-

GENERAL CONDITIONS

The NSU Purchasing Department reserves the right to award items separately, grouped or on an all-or-none basis and to reject any or all bids and waive any informalities.

- 1) **Prices:** Unless otherwise specified in the solicitation, bid prices shall be complete, including transportation and handling prepaid by the bidder to destination - NSU, Thibodaux, LA. Bids other than FOB destination may be rejected. Bid prices should be quoted in the unit of measure stated. Bid prices shall be firm for a minimum of thirty (30) calendar days, unless otherwise specified by NSU in the solicitation document.
- 2) **Payment Terms:** Cash discounts for less than 30 days may be offered, but will not be considered in determining awards. Bids containing "payment in advance" or "COD" requirements may be rejected. Payment is to be made within 30 days after receipt of properly executed invoice or delivery, whichever is later.
- 3) **Delivery:** Bids may be rejected if the delivery time indicated is longer than that specified in the solicitation document.
- 4) **Taxes:** Bidder is responsible for including all applicable taxes in the bid price. The University is currently exempt from Louisiana State Sales and Use Taxes, and local parish and city taxes. An exemption certificate for state sales and use tax can be provided upon request.
- 5) **New Products:** Unless specifically called for in the solicitation document, all products for purchase must be new, never previously used, and the current model and/or packaging. No remanufactured, demonstrator, used or irregular product will be considered for purchase unless otherwise specified in the solicitation document. The manufacturer's standard warranty will apply unless otherwise stated in solicitation.
- 6) **Default of Contractor:** Failure to deliver within the time specified in the solicitation document will constitute a default and may cause cancellation of the contract. Where the University has determined the contractor to be in default, the state reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.
- 7) **Contract Cancellation:** The University shall have the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including but not limited to, the following: (1) failure of the vendor to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality, or to be delivered in good condition; (3) misrepresentation by the contractor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract.
- 8) **Applicable Law:** All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.
- 9) **Equal Opportunity:** By submitting and signing this bid, bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, sexual orientation, age, national origin, handicap, disability, veteran status, or any other non-merit factor.
- 10) **Bid Bonds:** If a bid bond is required, a bid bond must be submitted for each separate bid response. The bid bond shall be in an amount equal to 5% of the bid price submitted and alternates, if any. The bid security shall be in a form of a bid bond or certified check, or cashiers check.

(PLEASE NOTE THAT A BID BOND MUST BE SIGNED BY THE AGENT OR ATTORNEY-IN-FACT OF THE SURETY.)

(*) The surety or insurance company furnishing the bid bond shall be currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

FOR THIS BID SOLICITATION:

BID BOND REQUIRED: _____ Yes X No

PERFORMANCE AND
PAYMENT BONDS REQUIRED: _____ YES X NO

PURCHASE WILL BE EXECUTED WITH: X Purchase Order Only
_____ Purchase Order and Formal Two Party Contract
_____ Formal Two Party Contract Only

A Member of the University of Louisiana System

**NOTICE TO BIDDERS: ITEMS PURCHASED THAT ARE PRODUCED,
MANUFACTURED, ASSEMBLED, GROWN, OR HARVESTED IN LOUISIANA
ARE SUBJECT TO PREFERENCE LAWS, SEE BELOW.**

SPECIAL CONDITIONS

BID NUMBER: SB01514 BID OPENING: December 10, 2009 at 3:00 PM

In accordance with the Louisiana Revised Statute 39:1595, a preference of 10% may be allowed for products produced, manufactured, grown or assembled in Louisiana of equal quality.

DO YOU CLAIM THIS PREFERENCE? YES _____ NO _____

***SPECIFY ITEM NUMBER(S)* _____**

Specify location within Louisiana where this product is produced, manufactured, grown or assembled:

FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES.

Bidder shall provide with bid detailed information as to how the item qualifies for this preference.

This preference may be allowed if all of the following conditions are met:

- 1) The cost of such item(s) does not exceed the cost of other items which are manufactured, processed, produced, or assembled outside the state by more than 10%***
- 2) The vendor of such Louisiana items agrees to sell the items at the same price as the lowest bid offered on such items.***
- 3) In cases where more than one bidder offers Louisiana items which are within ten percent of the lowest bid, the bidder offering the lowest bid on Louisiana items is entitled to accept the price of the lowest bid made on such items.***

CONDITIONS OF PURCHASE

The following conditions, unless otherwise stated in the bid document, will apply to all purchase orders:

Merchandise must be accompanied by delivery slip or shipping list showing items shipped or delivered and the purchase order number. THE PURCHASE ORDER NUMBER must appear on all invoices, delivery memoranda, bills of lading packages and correspondence.

The University is not responsible for goods delivered or work done without a written order. No allowance for boxing or crating. Unauthorized quantities in excess of this order will be returned or held subject to shipper's order, expense and risk.

Contractor warrants that the merchandise to be furnished hereunder will be in full conformity with the specifications, drawing or sample and agrees that this warranty shall survive acceptance of the merchandise and that contractor will bear the cost of inspecting rejected merchandise.

All rejected goods will be held at contractor's risk and expense, subject to contractor's prompt advice as to disposition. Unless otherwise arranged, all rejected goods will be returned at contractor's expense.

Contractor will, at its expense defend the University against any claim that any merchandise to be furnished hereunder infringes a patent or copyright in the United States or Puerto Rico, and will pay all costs, damages and attorney's fees that a court finally as a result of such claim.

**NICHOLLS STATE UNIVERSITY
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SPECIFICATIONS AND BID FORM
PROCUREMENT OF SCIENTIFIC AND RESEARCH EQUIPMENT
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ALL PRICING MUST INCLUDE SHIPPING COST FOR DELIVERY TO NICHOLLS STATE UNIVERSITY.

PRICING TO INCLUDE DELIVERY, SET UP, INSTALLATION AND TRAINING WHEN STATED IN SPECIFICATION.

ITEM 1: Biology Department Steel Herbarium Case, Carolina #FA-66-3700, or equal

- Sies, VI full sized, floor model

6 Each @ \$_____ Each = \$_____ Total

ITEM 2: Biology Department Controlled Environmental Chamber – Lab Companion Plant Growth Chamber Cole Palmer Model EW-39353-00, or equal

- Minimum 300 liter capacity plant growth chamber with grow lights
- Microprocessor PID controller
- Temperature range 10-50C with lamps on
- Illumination range is 0 – 20,000 lux with a 10 step controller and fluorescent lamps (32W X 18 Ea)
- Minimum Interior dimensions 20.0X 21.3 X 43.3 Inches
- Minimum exterior dimensions 27.6 x 30.1 x 74.8 inches
- Digital timer 1 min to 99 hr 49 min
- Wide inner tempered glass doors provide a full view of the sample
- High quality 304 stainless steel interior and dirt-repellent powder coated exterior
- 115VAC
- Includes 2 wire racks

1 Each @ \$_____ Each = \$_____ Total

ITEM 3: Biology Department Growlab II Two-Tier Indoor Garden, Carolina #NR-66-6763

- Includes two light fixtures, 2 timers
- Minimum size of both units 52 X 23 X 74

1 Each @ \$_____ Each = \$_____ Total

ITEM 4: Biology Department Biotronette Mark III Environmental Chamber with Mobile Stand, Carolina # 66-6802, or equal

- Forced air ventilation system
- Sliding glass doors and two interior electric receptacles
- Minimum Size inside 50 X 17 X 29 H
- Minimum size outside: 52 X 18-1/2 X 38 H
- For 120-V 60 Hz, AC
- Includes reference Manual for Environmental Studies and 8ft 3 wire power cord

1 Each @ \$_____ Each = \$_____ Total

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ITEM 5: Biology Department Warm Water Touch Tank, Carolina #16721, or equal

- Constructed of research grade materials
- Top viewing area made of thermal pane tempered glass to insulate against temperature fluctuations and prevent sweating
- Includes mobile stand that allows entire tank system to be moved

1 Each @ \$_____ Each = \$_____ Total

ITEM 6: Biology Department Stainless Steel Process Table with Drain, Griffin Products C75-1-9339-PS, or equal

- Stainless Steel sink
- 3.5" center drain
- Constructed of 14ga type 316 stainless steel
- Undershelf shall be welded to legs
- Stainless legs and undershelf
- Legs shall have flanged feet
- Minimum dimensions 42"W X 96" L X 36" H
- Open undershelf running length of sink 10" from floor
- 1.5" wide rolled edge
- R1/4" all vertical & horizontal corners

1 Each @ \$_____ Each = \$_____ Total

ITEM 7: Biology Department Justrite Metallic Acid Slimline Cabinets, Fisher 19-159-709, or equal

- Manual Door Type
- Minimum 22 Gallon Capacity
- Three shelves

3 Each @ \$_____ Each = \$_____ Total

ITEM 8: Biology Department -86 degree Isotemp Basic Ultralow Temp Freezer, Fisher #13-990-14, or equal

- Minimum size 24.4 Cu ft
- 115V 60HZ
- Temp control for -86 to -50
- Manual defrost
- Microprocessor controls
- Touchpad data entry
- Key operated main power and alarm switch
- Temp deviation or power loss triggers audible/visual alarms
- Alarm Battery Low indicator
- Time delay for restart after power failure
- Battery backup supplies control panel in the event of power failure
- Steel cabinet with corrosion resistant coating
- CFC free refrigerants
- Built in key lock (padlock compatible)
- Stainless steel interior shelves
- Heavy duty 2in locking, tandem wheel casters

1 Each @ \$_____ Each = \$_____ Total

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ITEM 9: **Biology Department Isotemp standard capacity Refrigerated Incubator,
Fisher 11-679-25CN, or equal,**

- Minimum storage area 26 sq ft
- Microprocessor based controller with LED display
- Temp range -10 to + 60C
- Safety relay and alarm LED alert to over/under temp
- Shielded heater and non-sparking fan
- CFC free refrigeration
- Enameled steel exterior
- White plastic interior
- Adjustable front feet for leveling
- Five fixed position removable full width chrome plated wire shelves
- Six molded doors on door
- 2A convenience outlet in chamber
- Door switched interior light
- Overnight BOD sample preservation at 3 and 4 degrees C
- Standard culturing at 37C
- Vaccine storage at 15 C

1 Each @ \$_____ Each = \$_____ Total

ITEM 10: **Biology Department Ultra Centrifuge Floor Model, fisher # 50-870-522, or equal
with Rotar Fisher #11690, or equal**

- Sorvall WX Floor WX 80 Ultra
- Display rotary knob
- Max RCF 802.010xG
- Max speed 80,000 rpm
- With set RPPM and RCFR
- Programmable ultra secure system,
- 200-240V 50/60Hz, single phase
- INCLUDES DELIVERY, SET UP AND TRAINING
- Included with T-890 fixed angle titanium Rotor Package (8 x 12.5 ml) with rotor stand #65937, Vacuum Grease #61556, Lubricant #11696, Extra Overspeed decal 90,000 RPM #116930, 2 extra Rotor Cover O-ring #11694, Rotor cover locking nut #91910, locking nut O-ring 52392, rotor cover tool 52384, ultraspeed rotor log book 11656 and instruction manual. Must be compatible with Sorvall WX 80 Ultra floor model

1 Each @ \$_____ Each = \$_____ Total

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ITEM 11: Biology Department bench top drying oven, VWR # 47746-740, or equal

- Model FD forced convection oven
- Microprocessor controlled
- Type 304 stainless steel chamber
- 115L minimum volume
- With 2 shelves
- Temperature range +5 to 300 degree C
- 115V 50/60Hz, 1600W

1 Each @ \$_____ Each = \$_____ Total

ITEM 12: Biology Department Dual Head Teaching Microscope, #tn0030000M, or equal

- Dual head teaching microscope
- 40x – 1000 x
- Dual viewing

2 Each @ \$_____ Each = \$_____ Total

ITEM 13: Biology Department Titanium water heater/chiller, Aquatic Eco Systems # DSHP-4, or equal

- 1/3 hp
- 4000 BTU/Hr
- 10/20 gpm
- ¾" inlet/outlet
- 115V titanium lined

2 Each @ \$_____ Each = \$_____ Total

ITEM 14: Biology Department Rectangular fiberglass tanks, Aquatic Eco system #TR156, or equal

- Minimum size 72" X 36" X 14"
- Minimum 156 Gallon Capacity
- Smooth light blue gel coat interiors and light gray exteriors
- Top lid to be reinforced for strength

2 Each @ \$_____ Each = \$_____ Total

ITEM 15: Biology Department water pump, Aquatic Ecosystems DP25, or equal

- Low head
- 1-1/2" inlet/outlet
- ODP 60Hz motor
- 6' power cord
- 115V
- One year warranty

2 Each @ \$_____ Each = \$_____ Total

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ITEM 16: Biology Department Bubble Feed Filter, Aquatic Ecosystems BF60BL, or equal

- Central diffuser column to reduce internal friction loss
- Full rinse cycle pre-rinses the floating media in its normal filter cycle just after backwash and discharges the rinse water to the waste line
- Bottom sludge drain to allow heavy sludge and settled waste to be discharged from the bottom of the filter without disturbing the media
- Complete filter bypass allows complete isolation of the filter media from the pond without disturbing the normal water flow

2 Each @ \$ _____ Each = \$ _____ Total

ITEM 17: Biology Department wet/dry trickle filter, Aquatic Ecosystems #793013, or equal

- Cast acrylic
- Filters include 1-1/2" biospheres and 1-1/4" ID X 336" hse for each inlet

2Each @ \$ _____ Each = \$ _____ Total

NET LUMP SUM ITEMS 13-17 \$ _____
Items 13-17 awarded as net lump sum due to compatibility needs

ITEM 18: Biology Department Thermocycler with Dual reaction module, Bio-Rad 851048R/1840096, or equal

- Modular thermal cycler platform
- Includes C1000 thermal cycler chassis, dual 48/48 fast reaction module
- USB flash drive
- Reagents and consumables
- 5 interchangeable reaction modules, including 2 for real-time PCR detection
- Three programmable options including the Protocol Autowriter that automatically generates customized standard, fast, and ultrafast protocols
- Temp control modes – calculated and block
- PCR License
- Step-based graphical, text based, automatic programming options
- Security features Password protected folders, optional log-in, and secured mode for highly regulated environments
- Reporting – exportable run logs, system log errors,
- Onboard software – Windows CE6.0
- PC Compatibility – Windows XP or higher
- USB Peripheral compatibility, Mouse, USB, flash drive, bar code reader
- Real Time PCR upgrade CFX96 and CFX384 optical reaction modules
- Instant incubation
- 400W maximum input power
- Frequency – 50-60 Hz, single phase
- Display 12 x 9 cm, high resolution, color
- Ports – 5 USB A, 1 USB B
- Fuses – two 6.3A, 250 V, 5 X 20 mm
- Memory >1,000 typical programs onboard, unlimited with USB flash drive expansion
- TO INCLUDE 1840096 96 well fast reaction module that fits C1000 thermal cyclers, gradient enabled.

1 Each @ \$ _____ Each = \$ _____ Total

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ITEM 19: Biology Department Stereo Multi-Zoom Microscope, Nikon
(must be Nikon for research and classroom continuity with existing Microscopes in use)

- Capable of bright light and epifluorescent light

MUST INCLUDE FOLLOWING

- AZ100 Stereo Multi Zoom microscope, #MNA81000
- AZ-FL Epi-flourescence Attachment, #MNE84000
- AZ-NP3 Triple Nosepiece, #MNP80100
- AZ-TE100 Ergonomic trinocular Tube 100, #MNB83510
- AZ-W10X Eyepiece 10X (2 each) #MNK81100
- AZ plan Apo 1X #MNH85100
- AZ Plan Fluor 2X #MNH85200
- AZ Plan Fluor 5X #MNH85500
- Azstd Diascopic Stand #MND81010
- AZSTGD Dia Stage #MNC81010
- C-FI 115 Fiber Illuminator #MMF32820
- 12V/100W Bulb for C-FI Filer Illum-600hr #83391
- AZ-SG Stage Glass #MNC85010
- AZ-SDA Dish Holder Adapter #MNC85020
- C-HU Universal Holder for TE-TS Inverted Microscope #MFC35015
- C-HSG Slide Glass & 54mm Petri Dish Holder #MFC35013
- 35mm Petri Dish Holder for TS100 #MXA22036
- AZ-HGFA Fiber Adapter #MNE84010
- C-HGFI Fiber Illuminator (manual Version) #MBF72650
- C-HGF IF 15 HG Fiber (1500mm Fiber Optic Light Guide) #MBF71610
- C-LHGF I HG Lamp #MBF74650
- Power Cord #79035
- C-FL DAPI HC HISN Zero Shift #96360
- C-FL GFP HC HISN Zero Shift #96362
- C-FL DS Red HC HISN Zero Shift #96364
- AZ-OCC OCC Slider #MNN83110
- MQS33000 Aquisition and analysis package, includes camera and Nikon Motorized microscope drivers, Single Document interface
- MQS42100 Extended Depth of Focus combines multiple focal images into single
- AZ-ND128 ND128 filter for FL DIC #MNN83610
- Dust Cover H550L #MXA22048
- DS-FI1 5-Meg Color C Mount Camera Head only U2 or L2 Controller only #MQA11010
- DS-U2 Camera control USB 2.0 with elements F Capture Software MQA25010,
- Connects the 5M or 5Mc Camera Head to the L1or U1 #MQF11000
- AC Adapter #MQF52055
- Power Cord #79035
- Direct projection C-Mount Adapter 1.0X #77027003

1 Each @ \$ _____ Each = \$ _____ Total

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ITEM 20: Physical Sciences IEC HN-SII Benchtop Centrifuge, Fisher #05-111, or equal

- For continuous heavy duty Service in biomedical, industrial and research laboratories
- Load capacity: 1L
- Max Speed/force 8450 rpm/6200xg
- Variable Speed Control
- Operating Modes: Timed (0 to 60 minutes in 2 minute intervals) or HOLD for short runs
- Direct reading tachometer
- Manual Electric brake
- 120V 60Hz
- High Torque series-wound motor with permanently lubricated bearings
- Steel guard bowl and cover

1 Each @ \$_____ Each = \$_____ Total

ITEM 21: Physical Sciences Eppendorf Mini Spin Microfuge, Fisher #05-401-09, or equal

- Digital time
- 12 place 45 degree fixed angle rotor
- Auto lid release
- 115V
- Set speed in timed or short spin mode or select continuous centrifugation operation
- 12, 100xg
- Digital timer
- Non refrigerated
- 12 X 1.5 or 2.0 mL capacity
- Variable speed control
- 11 X 40mm Max Tube size
- Personal sized microcentrifuge supplied with 12-place aluminum rotor, short spin key

2 Each @ \$_____ Each = \$_____ Total

ITEM 22: Physical Sciences MaxiMix Plus Vortex Mixer, Fisher #12-815-18, or equal

- 120V 60 HZ
- Compact
- Fixed speed
- Single tube mixer with continuous and touch activated operating modes
- Includes Mixer, 1 in diameter rubber mixing cup, soft foam pad and mixing platform, power cord and plug
- Fixed speed 3200 RPM
- Cast aluminum base

4 Each @ \$_____ Each = \$_____ Total

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**ITEM 23: Physical Sciences Orion 4-Star pH/Conductivity Benchtop Meter,
Fisher #13-645-109, or equal**

- Dual channel
- Dual display pH/Conductivity meter
- Accurate measurements in soil and water analysis applications
- With meter kit package that includes meter, PH/ATC triode #42, 9157BNMD, Duraprobe#42, Conductivity cell 013605MD, electrode stand, 1 pt each pH 4.01/7.00/10.01 buffers, 5 x 60ml or PH electrode storage solution and 14 13 Siemen conductivity standard, universal power supply and instructions

4 Each @ \$ _____ Each = \$ _____ Total

**ITEM 24: Physical Sciences Drummond Portable Pipet-aid filler/dispensers Fisher #13-681-19,
or equal**

- Single Speed
- Work with 1 to 100 ml pipets
- Run continuously for over two hours
- Pipetting over 2,000 times without recharging
- Can be used while recharging
- Filter prevents detectable penetration to 0.035um particles and prevents further used of filler/dispenser if it becomes contaminated with fluid
- Includes tissue culture nosepiece/filter unit that eliminates cross-contamination due to overpipetting with a dual dydrophilic 0.8um filter, 110V 60Hz recharger, four replactement 1 in diameter 2.5cm filters, replaceable 9V niMH battery, wall holster and stand.

4 Each @ \$ _____ Each = \$ _____ Total

ITEM 25: Physical Sciences Gel drying system, Fisher #FB-GD-X1, or equal

- Includes gel dryer with 5 ft of PVC vacuum tubing, inline stopcock, hose clamps, 1L of trapping medium, Vacuum system with plastic support mesh, porous support pad, silicone rubber sealing sheet
- 115V 60Hz
- Gel Dryer features
Large drying surface
PTFE resin coated aluminum casting
720w heater has variable temperature adjustment between ambient and 80 degree C
Built in five hour timer may be set on hold for continuous operation
CSA approved
- Vacuum System Features
Dual Pumping Action
Condenses and isolates hot vapors from rest of the system by room temperature vapor pump,
Provides deep vacuum to get all of liquid from gel
Trapping medium does not mix with condensate sot it can be reused
12 month warranty

1 Each @ \$ _____ Each = \$ _____ Total

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ITEM 26: Physical Sciences Vacuum manifold, fisher #11-131-31, or equal

- Processes up to 12 sample simultaneously
- Includes, Polypropylene cover, gasket, base, rack for sample collection vessels (base, five support plates, support rods, retaining clips), glass sample basin to allow observation of samples, 12 or 24 flow-control valves, 12 or 24 replaceable solvent guide needles
- Sample rack comes with five support plates to accommodate a variety of glassware
- Manifold will accept 10 and 16mm test tubes, 12mm autosampler vials, 17mm scintillation vials, and volumetric flasks

2 Each @ \$_____ Each = \$_____ Total

ITEM 27: Physical Sciences Platform orbital shaker Fisher #14-278-104, or equal

- Model 2000
- 500 mL maximum flask size
- 25 oo 500 rpm shaking speed
- Circular ¾ in dia. shaking orbit
- Tactile keypad with digital LED display for speed, time remaining, and elapsed time
- 0.1 to 99.9 hour timer
- Speed and timer alarms
- Triple action Gyrotory drive
- Microprocessor stabilizes rate to 1 rpm of setpoint
- Feedback loop compensates for fluctuations in voltage, load imbalance or workload
- Low profile design
- Retains setpoints in memory
- Automatic restart if power is interrupted
- Acceleration circuit prevents sudden starts and minimizes splashing
- 120V 50/60Hz

1 Each @ \$_____ Each = \$_____ Total

ITEM 28: Physical Sciences PCR Labstation, Edvotek 5067, or equal

- 6 X 502 M12 Horizontal Electrophoresis Apparatus (one 7 X 14 cm gel tray)
- 3 X 509 EVT dual power source (75/150X for 1 or 2 units)
- 6 X 590 5 50 ul Variable Micropipet
- 1 X 541 EdvoCycler (25 X 0.2ml)
- 1X 558 Midrange UV Transilluminator (7.5 X 7.5 cm filter)
- 1 X 539 1.8 Waterbath

1 Each @ \$_____ Each = \$_____ Total

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ITEM 29: Physical Sciences Muffle Furnace, Type F47900, Thermo Scientific, or equal

- Themolyne Quality
- 1200 degree C
- 120 or 350 ci capacity
- Built in vent port
- Door safety switch to stop power to heating elements when door is opened
- Thermocouple to break protection cuts power to the heating elements to prevent a thermocoupler failure runaway condition
- Two open coil heating elements on chambers side to assure quick heat up with minimum temperature gradient
- Thermal-efficient ceramic insulation surrounds the chamber for maximum energy efficiency
- Rear chamber incorporates a .38" diameter port for monitoring chamber temperatures with independent measuring devices
- Power cord
- Hertz 50/60
- D1 Digital programmable control with 4 stored programs , 16 segments per program, includes RS-232 communications and mechanical over temperature protection relay.

1 Each @ \$_____ Each = \$_____ Total

ITEM 30: Physical Sciences Magnetic Susceptibility Balance, Johnson Matthey Mark I, or equal

- Place sample tube in the balance and obtain immediate digital read out
- Mass susceptibility is easily calculated using simple equation
- Measurement can be made on a wide range of diamagnetic and paramagnetic materials
- Fixed sample tube allows susceptibility measurement of solids, liquids, and gases
- 50 mg sample can give accurate measurement
- 120V
- Includes software to compile data and cable that connects MSB analog output to serial port on PC
- Output Analog

1 Each @ \$_____ Each = \$_____ Total

ITEM 31: Physical Sciences Scroll Pump, Cole Palmer EW-78603-10, or equal

- 5.6 CFM
- Vertical Design
- Chemically resistant materials
- Dry vacuum pump suitable for wide range of applications

1 Each @ \$_____ Each = \$_____ Total

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ITEM 32: **Physical Sciences Cole Palmer Digital Manometer, EW-68603-04, or equal**

- 0-30 psi
- Includes EW-68603-04 AC power adapter, 115 VAC
- Includes EW-68101-00 Digital vacuum gauge 0 to 12000 (0-1600pa)

1 Each @ \$ _____ Each = \$ _____ Total

ITEM 33: **Physical Sciences Dual Line Vacuum Manifold, Safety Emporium AF-0062-85, or equal**

- Souza design, complete system, 5 ports 2- line vacuum manifold
- 1-Vacuum trap complete with body O-ring and horseshoe clamp
- 1-#15 O-ring to 3/4" tabulation for connecting vacuum source
- 3-#15 O-ring stoppers
- 10-stainless steel clamps (9 for line, 1 for trap)
- 1-connecting inlet adapter for inert/reaction gas supply
- 1-bubbler
- 1-T-shape tubing connector for inert/bubbler supply line
- 5-#15 O-ring to 3/8" tabulation to adapt ports to vacuum tubing
- 1-12 pack of spare #116 Viton O-rings

1 Each @ \$ _____ Each = \$ _____ Total

ITEM 34: **Physical Sciences UV Visible Spectrophotometer, Agilent 8453A #G1812AA, or equal**

- Spectral data in less than 1 second
- Stable optics, low noise, no moving parts
- Direct access to sample area
- USB or LAN
- 190-1100 nm Diode array wavelength range
- GLP, USP and EP Compliance
- Slit width 1nm
- EP Resolution test >1.6
- Stray light <.03%, <.05%, <1%
- Wavelength accuracy <+/- .05nm, <+/-0.2 nm
- Wavelength Reproducibility <+/- .02 nm
- Photometric Accuracy <+/- .005A, <+/- .01 A
- Photometric noise <.0002 A
- Photometric Stability <.001 A/h
- Baseline flatness <.001A
- Typical scan time 1.5 seconds, full range
- Line Voltage 90-264 V AC
- Line frequency 47-63 Hz
- Power consumption 70VA typical
- LAN Interface for PC

1 Each @ \$ _____ Each = \$ _____ Total

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ITEM 35: Physical Sciences Top Loading Balances, Fisher #S94792A, or equal

- 100 g capacity
- 0.001 g readability
- Linearity +/- .01g
- Repeatability 3mg
- Full Tare Range
- Weighing Mode Grams and Newtons
- LCD Display
- Round 90mm diameter Pan

8 Each @ \$_____ Each = \$_____ Total

ITEM 36: Physical Sciences Explosion Proof Refrigerator, Wards #15 V 8810, or equal

- Safely stores flammable or explosive materials
- All wiring and contacts are encased to prevent sparks
- Hermetically sealed explosion proof-proof compressor with 1/6 hp in steel cabinet
- Porcelain enamel interior
- Three shelves on refrigerator door
- Three interior shelves
- Separate freezer compartment includes door shelf
- Wired directly to wall
- UL Listed for class I group C and D materials
- -15 to +32 degreeF
- Minimum Size refrigerator compartment 20-3/4"W x 41-1/2"H x 14"D
- Minimum size freezer compartment 19"W X 12-3/4" H X 15" D

2 Each @ \$_____ Each = \$_____ Total

ITEM 37: Physical Sciences Agilent Technologies 8453 UV-VIS Value System, or Equal

- Includes 8453 Spectrophotometer with LAN interface
- General Purpose Chem Station Software
- HP VL PC with 128 MB Ram, CD Rom Drive 17" Monitor, Windows NT 4.0 and HP desk jet Color Printer

1 Each @ \$_____ Each = \$_____ Total

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ITEM 38: **Physical Sciences Platform Orion Skyquest XT12i #27189 Computerized IntelliScope, or Equal,**

- 2" Crayford-style focuser
- 305mm Pyrex parabolic primary mirror
- Able to plug computerized object locator into telescope base and find and view any of 14,000 celestial objects.
- Open ventilation
- Aluminum Mirror Cell with 9-point floating support and mounting holes for optional cooling fan
- Focuser accepts 2" and 1.25" eyepieces
- Roller Bearing construction
- Metal focusing knobs with rubber grips
- Thumb screw for locking focus position and adjusting tension
- Includes adapter for 1.25" telescope eyepieces
- 9X50 dovetail finder scope
- To Include Orion Urban Imager Computerized GoTo Reflector Package

1 Each @ \$_____ Each = \$_____ Total

ITEM 39: **Physical Sciences Napco Thermo Scientific Model 8100 TDE Environmental Test Chamber, Fisher #14-487-3**

- Portable, no plumbing required
- Front mount controls for timer, dryer temp, autoclave temp, and condensate
- Variable exposure time up to 60 hrs, 5-hour increments
- Precise temp control within +/- 0.5 degree C from 121 degrees to 132 degrees C
- Door mounted temp and humidity gauges
- Dryer Cycle to eliminate residual moisture
- End of cycle alarm
- Safety shutoffs to provide overtemperature and overpressure protection
- External hermetically sealed lead for external analysis of device under test
- Stainless steel chamber interior
- 120V 60Hz, 12A
- UL Certified

1 Each @ \$_____ Each = \$_____ Total

ITEM 40: **Physical Sciences Platform orbital shaker Fisher #14-278-104, or equal**